

Draft

**Pump Station S-512A
Summary of Hydraulic Design Data**

Revisions:

- 12 December 2000 – Original submission

XY Coordinate¹ – 845250 600920

Location: At the intersection of the SE corner of the mitigation area and the C-9 Impoundment.

Purpose/Operational Intent: Flood Control

- Control WSE in two divided seepage collection canals: (1) mitigation northern/eastern reach, and (2) C-9 Impoundment's northern/eastern reach.

Design Condition: Seepage Control 225 cfs

Pump Station Capacity Criteria:

- The design pump rate was determined by seepage rate analysis and incorporating a safety factor of 5.

Number of Pumps 3

Pump Mix Type and Size Electric 3 @ 75 cfs

Mix Criteria:

- The pump station will have three identical 75 cfs pumps.
- One pump is utilized for the mitigation northern/eastern sides seepage canal.
- Two pumps are utilized for C-9 Impoundment's northern/eastern sides seepage canal.

Control: Remote by SCADA or Local

Design Heads

Normal (2.5 HW to 10.5 TW)	8.00	feet
Maximum (2.0 HW to 10.5 TW)	8.50	feet

Intake Water Surface Elevations

Maximum Non-Pumping	6.50	ft-NGVD
Maximum Pumping	6.50	ft-NGVD
Start Pumping	3.10	ft-NGVD
Normal Pumping	2.5 to 3.0	ft-NGVD
Minimum Drawdown Pumping	2.00	ft-NGVD
Minimum Non-Pumping	2.00	ft-NGVD
Channel Invert	-4.50	ft-NGVD

Discharge Water Surface Elevations

Maximum Non-Pumping	12.50	ft-NGVD
Maximum Pumping	10.50	ft-NGVD
Normal Pumping	10.50	ft-NGVD
Minimum Pumping	3.00	ft-NGVD
Minimum Non-Pumping	3.00	ft-NGVD
Channel Invert	0.00	ft-NGVD

Notes:

- ¹ XY coordinates system used is NAD 83, Florida east, state plane.
- All elevations are in feet, NGVD (National Geodetic Vertical Datum of 1929)

Data Compiled from:

- Selected Plan parameters.